# FAMILY MATH NEWSLETTER: JUNIOR EDITION
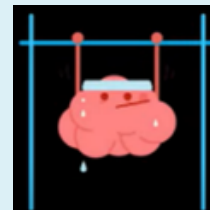## ISSUE 9: OCTOBER 2024

## Good Watch: Growth Mindset

Did you know that we can use our mistakes as learning opportunities to develop a deeper understanding of the mathematics we are doing?
How does this work?
Watch: The Truth About Your Brain (Khan Academy)

## Game TARGET 75

**Materials**: one die, paper, pencil
Goal: To be the player whose total is closer to 75, without going over. Players gets exactly 6 rolls each.
**How to Play:** Player 1 rolls the die. She multiplies the number rolled by any number between 1 and 5, or by 10. Record the total. Player 2 takes a turn and does the same. On Player 1s' next turn, add the new product to the previous total. Players continue to take turns until each player has had 6 turns. The player whose total is closer to 75, without going over, wins.

## Math Talk

How many ovals of paint do you see?

How do you know?

Source: Number Talk Images

## Problem Solving: KEN KEN PUZZLES

The goal is to fill the whole grid with numbers, making sure no number is repeated in any row or column.
In a 3x3 puzzle, use the numbers 1-3, in a 4x4 puzzle, use the numbers 1-4. You can only use each number once in the same row or column.
Inside the dark boxes is a "target number" and operation. Numbers may be used in any order combination with the operation to hit the target number.
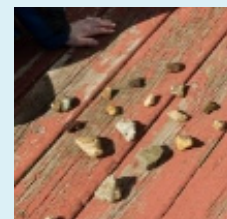
Click here for a selection of Ken Ken Puzzles

3x3

4x4

## Outdoor Learning: Multiplication with Nature!

Have your child collect as many of one kind of item such as sticks, rocks, leaves, or cones as they can in one minute.
Split your items into 2 equal rows. How many do you have left over? How many are there in each row? Say the math expression for this array? (e.g., 2 rows of 5 is 10, 2 x 5 = 10).
Continue splitting your items into 4 equal groups, then 3, 5, 6, 7, 8, and 9 equal groups. Answer the questions above for each array that you make.

Adapted from: Educate Outside Multiplication Sticks
Image Source: Line Upon Line Learning